

FIG. 1

09975036-101001

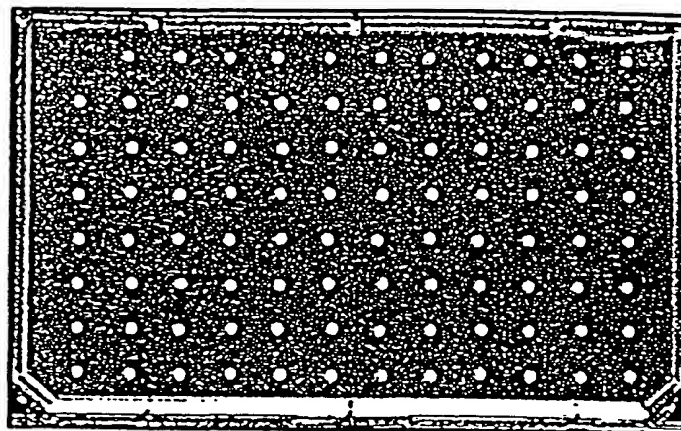


FIG. 2

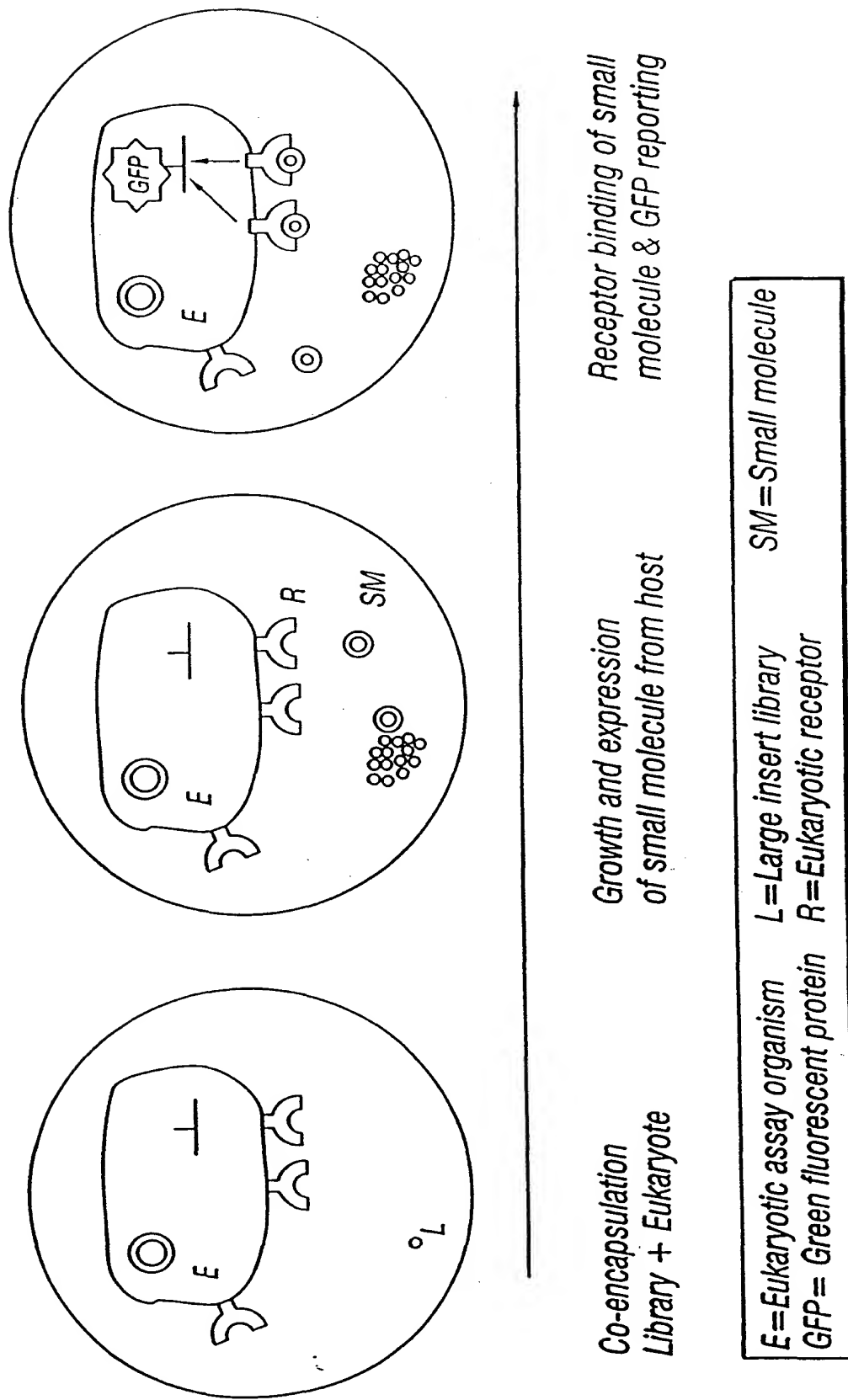


FIG. 3

FOOTPRINT SEOS4660

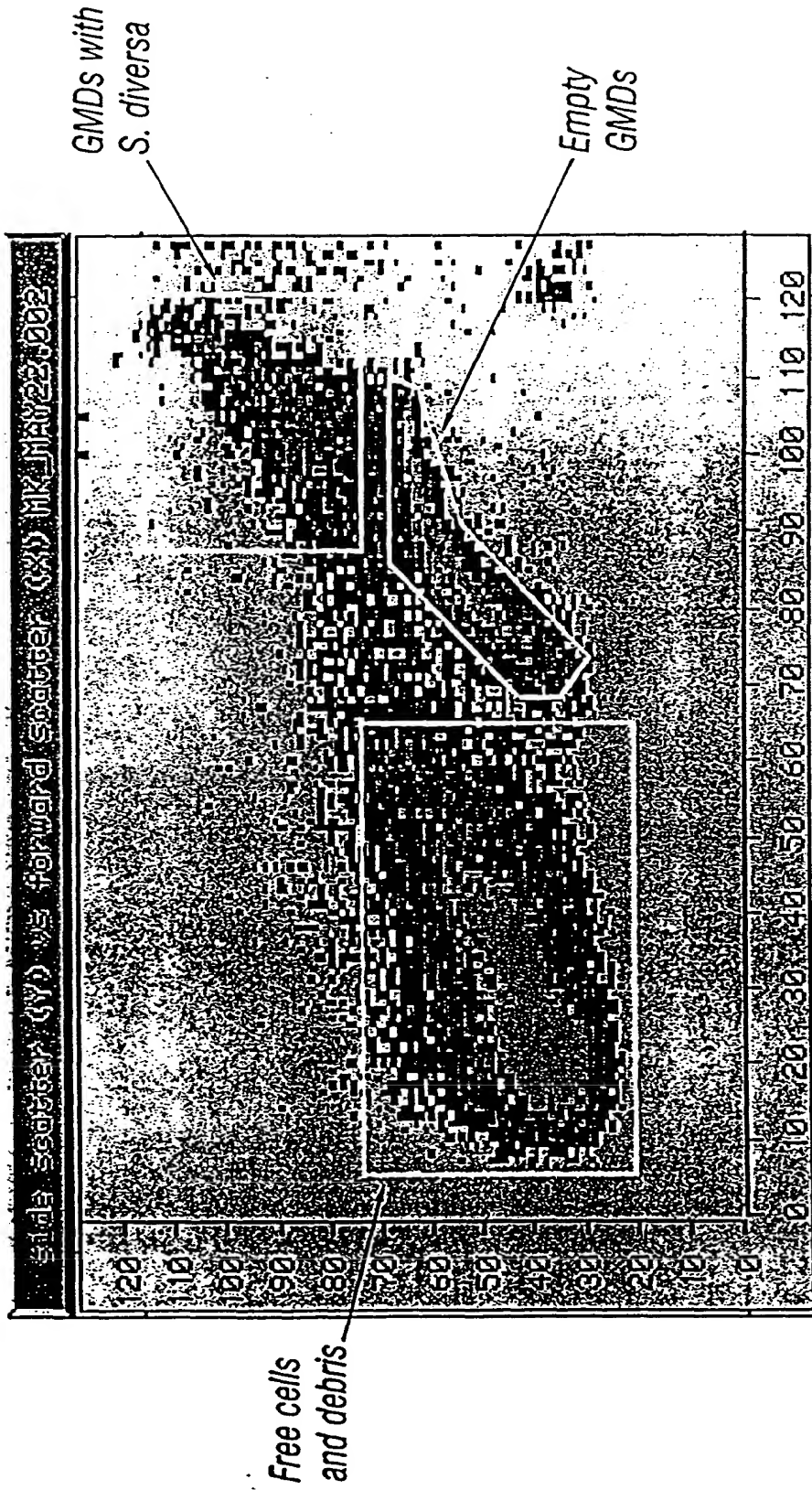
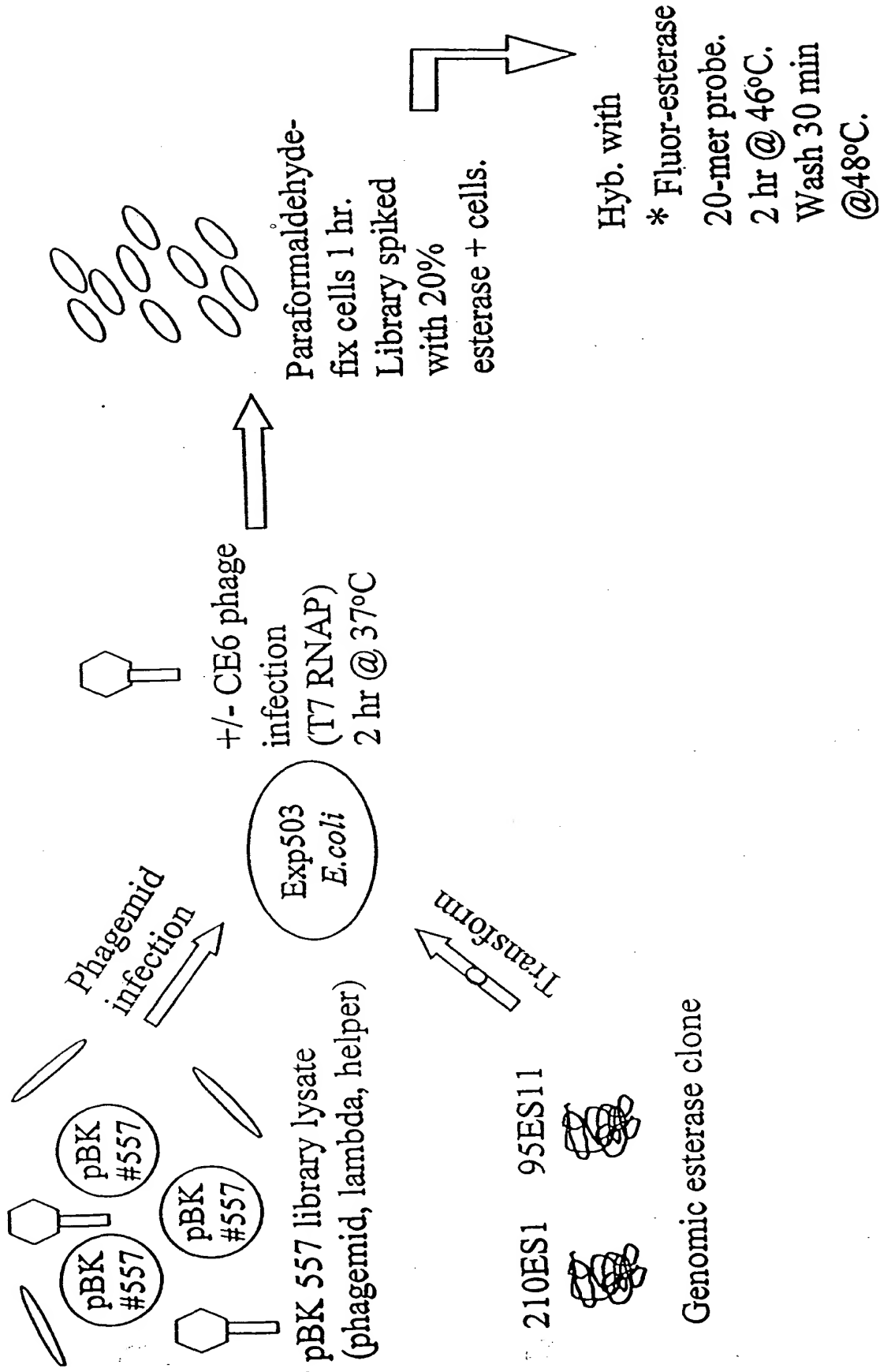


FIG. 4

Whole Cell Hybridization Protocol (+ control)



09975036-101001

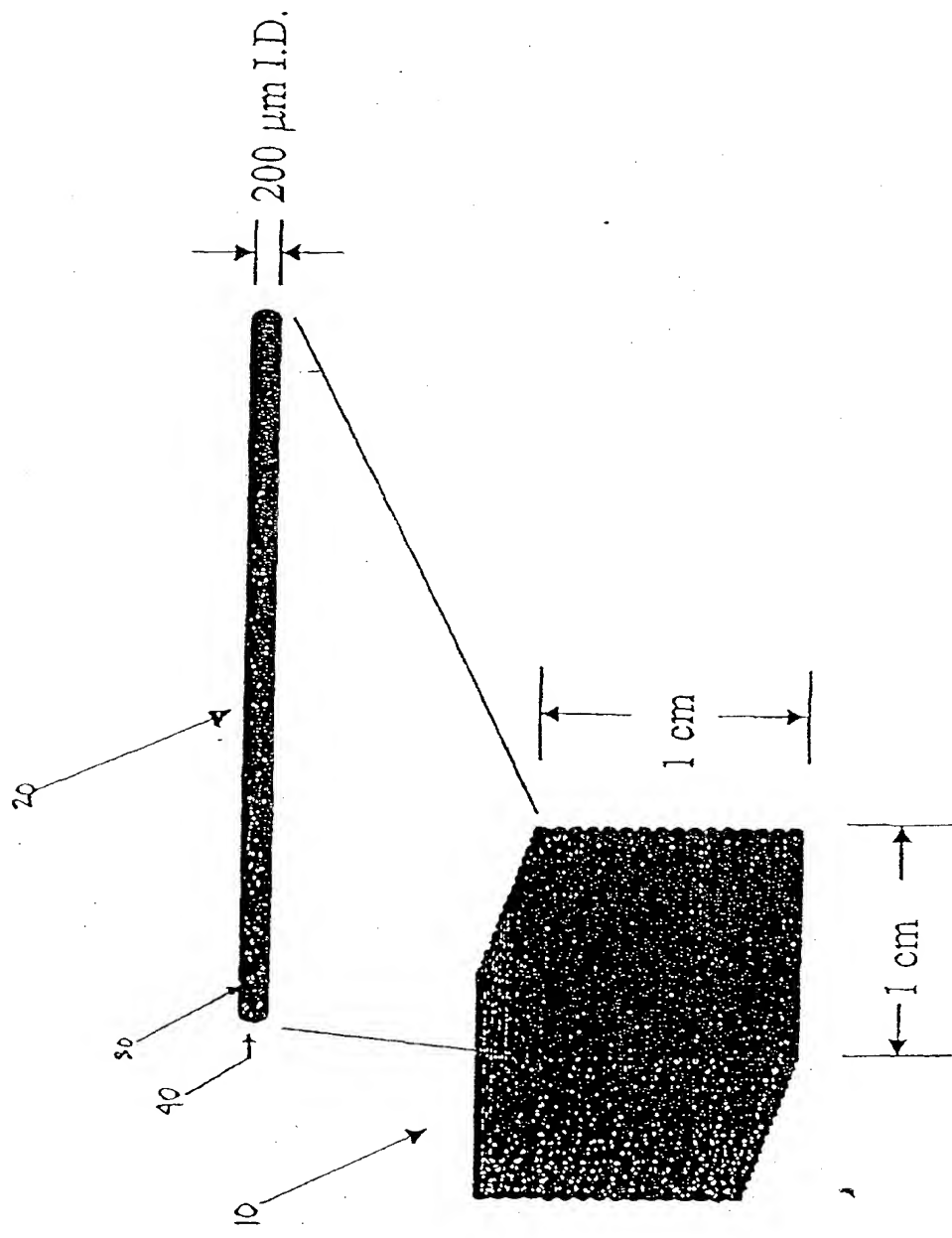


Figure 6A

09975035-101001

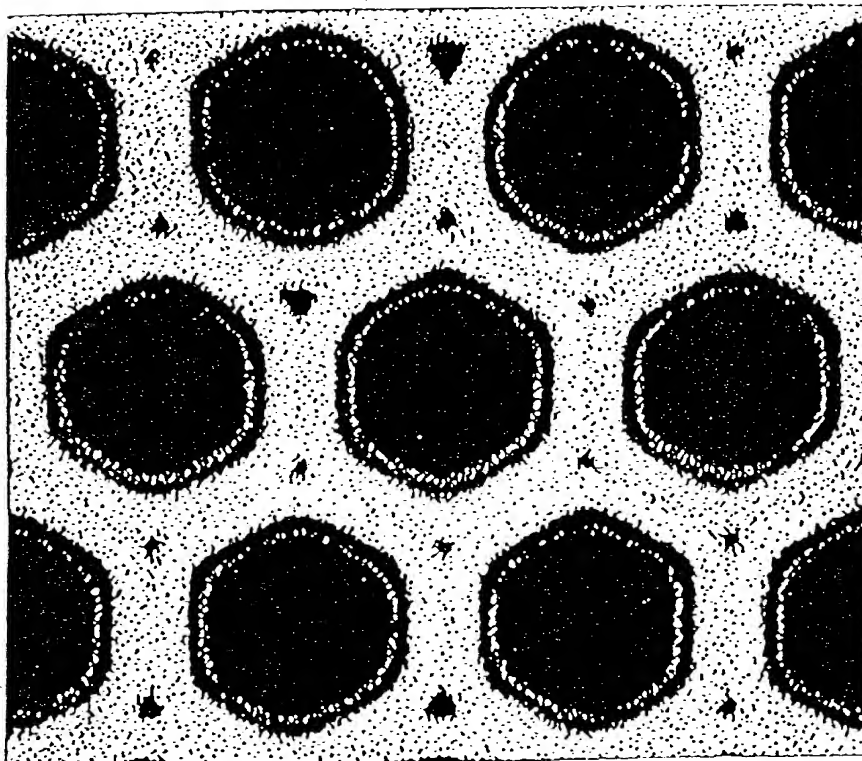


Figure
6B

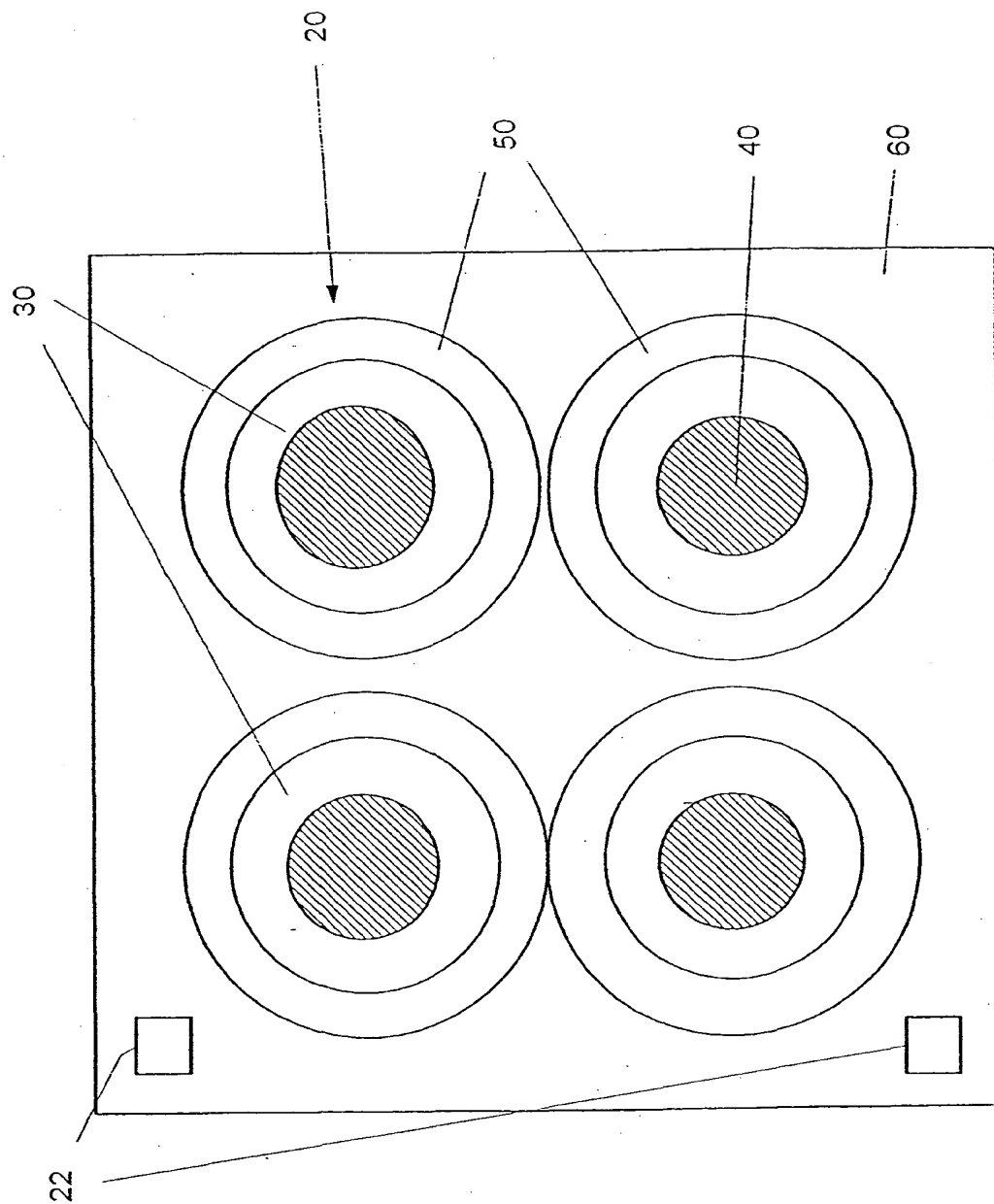
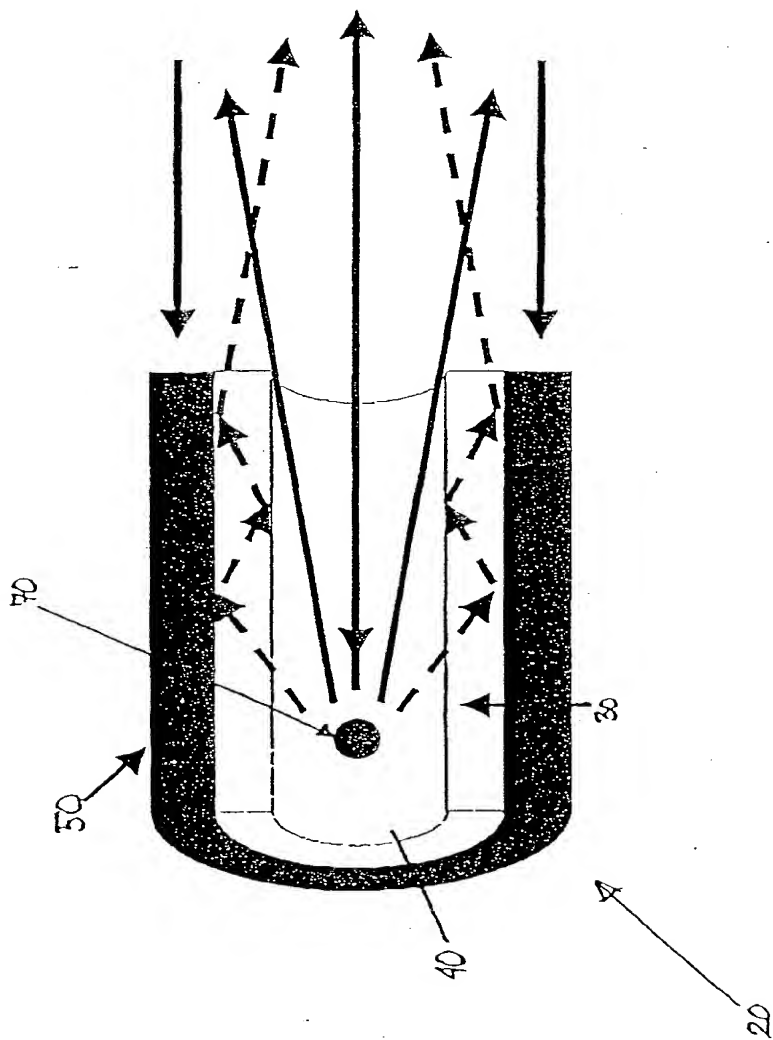


FIG. 7

Figure 8



09975036-101001

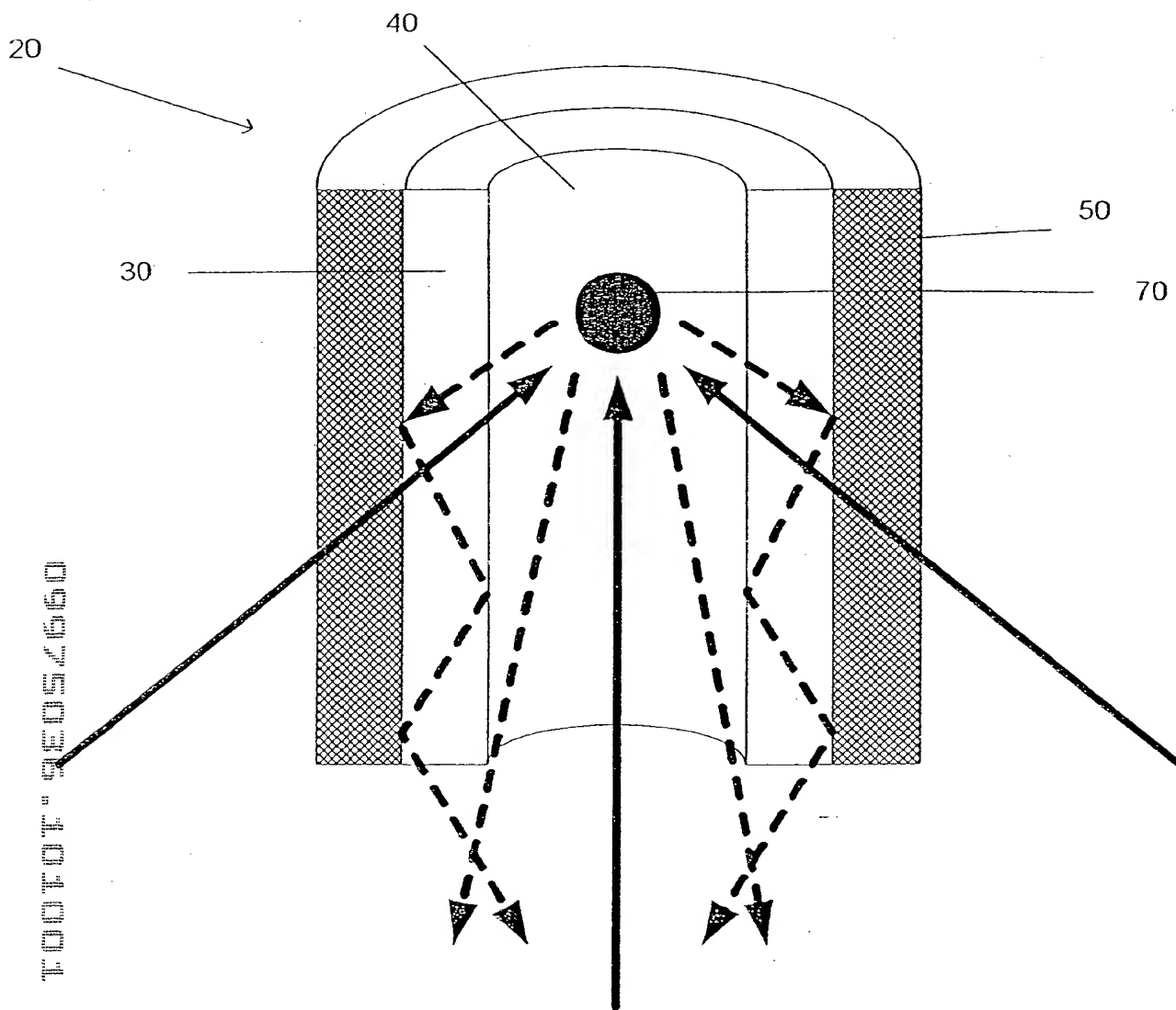
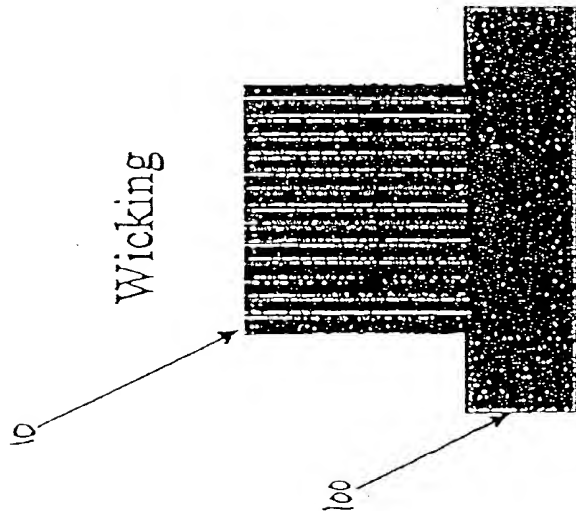
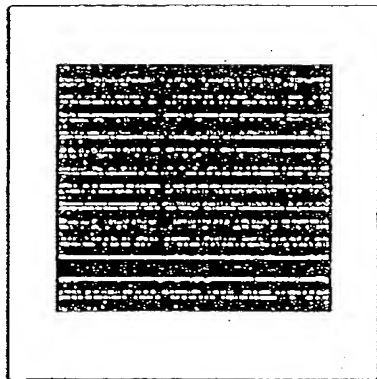


Figure
9



Wicking

Humidified Incubation



Imaging &
Recovery



Figure
10

FOOT-REFLECTOR
evaporation

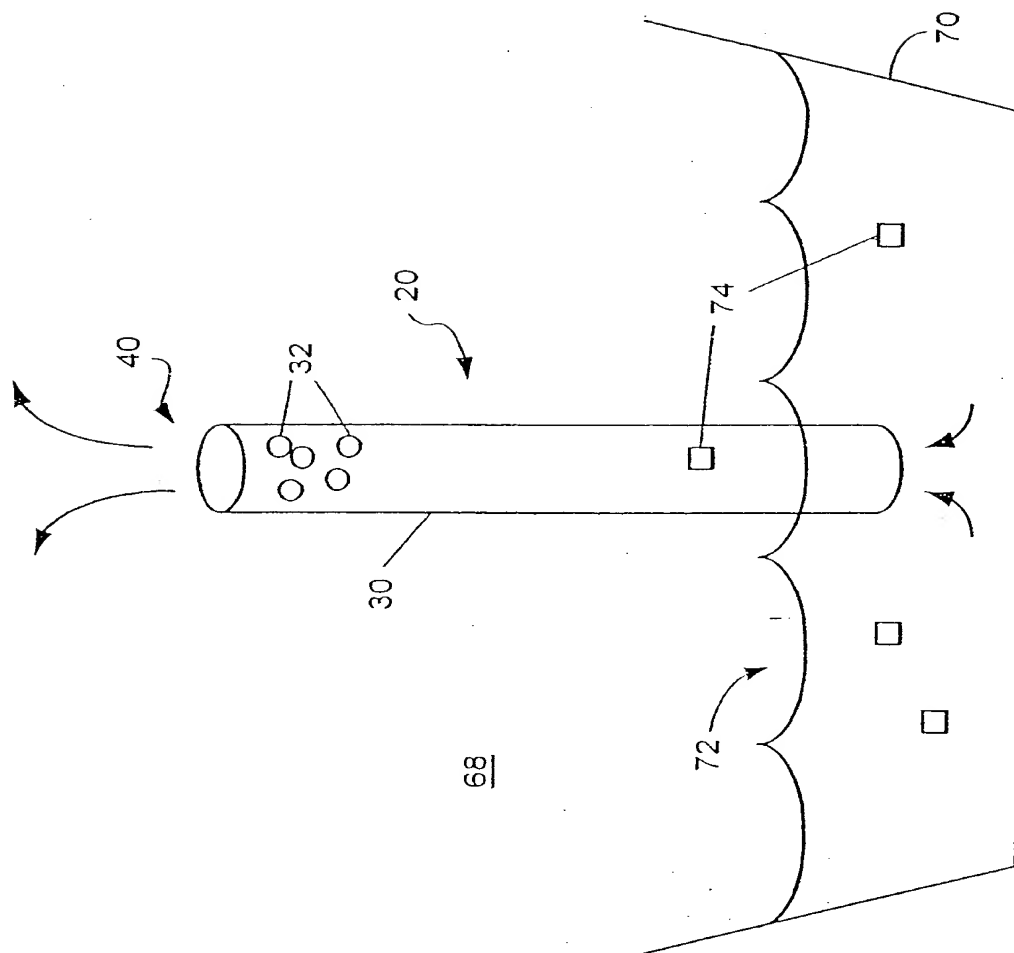


Figure
11

FIG. 12A

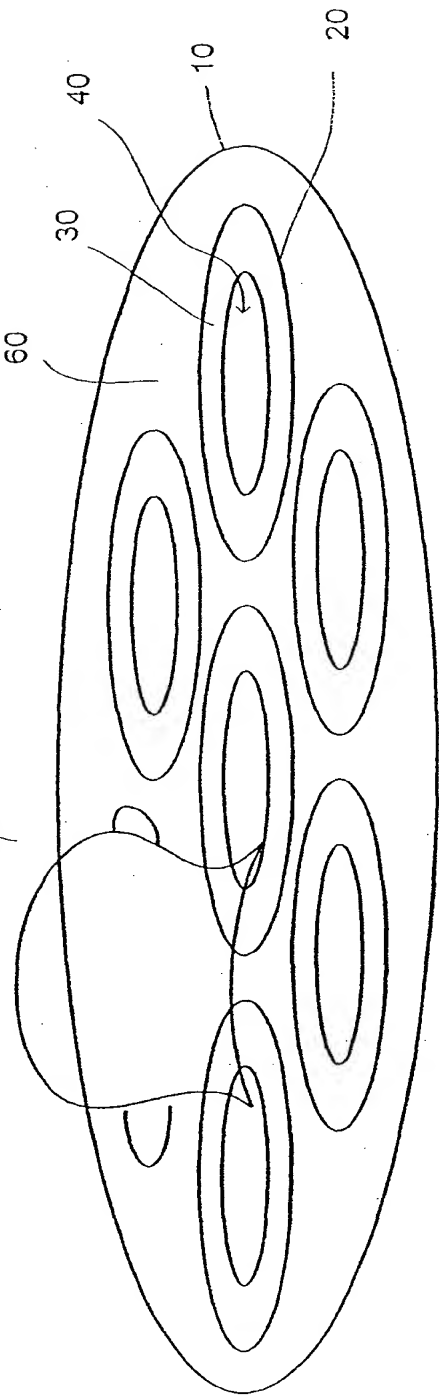


Figure 12A

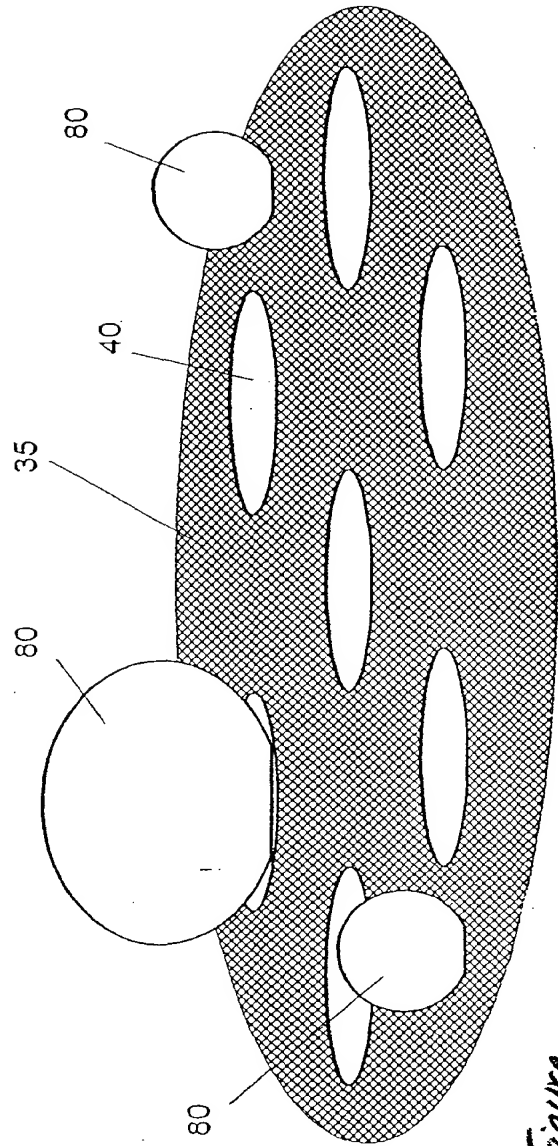
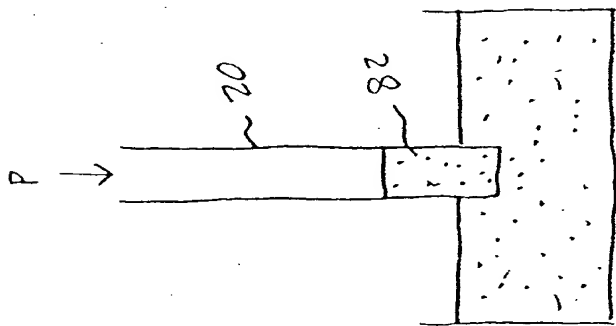
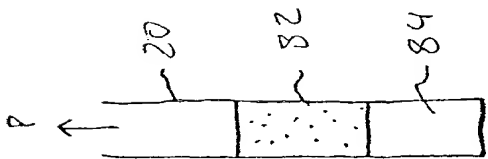


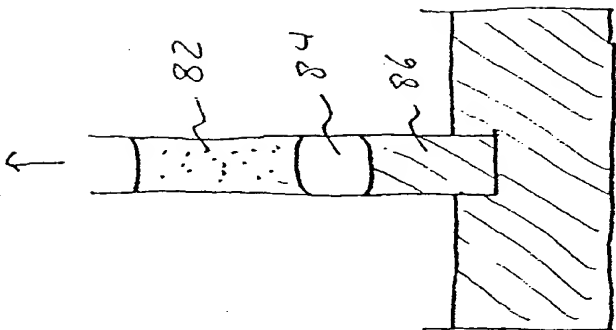
Figure 12B



A.



B.



C.

Figure
13

TOOTOT"9E0S/660

Capillary array.

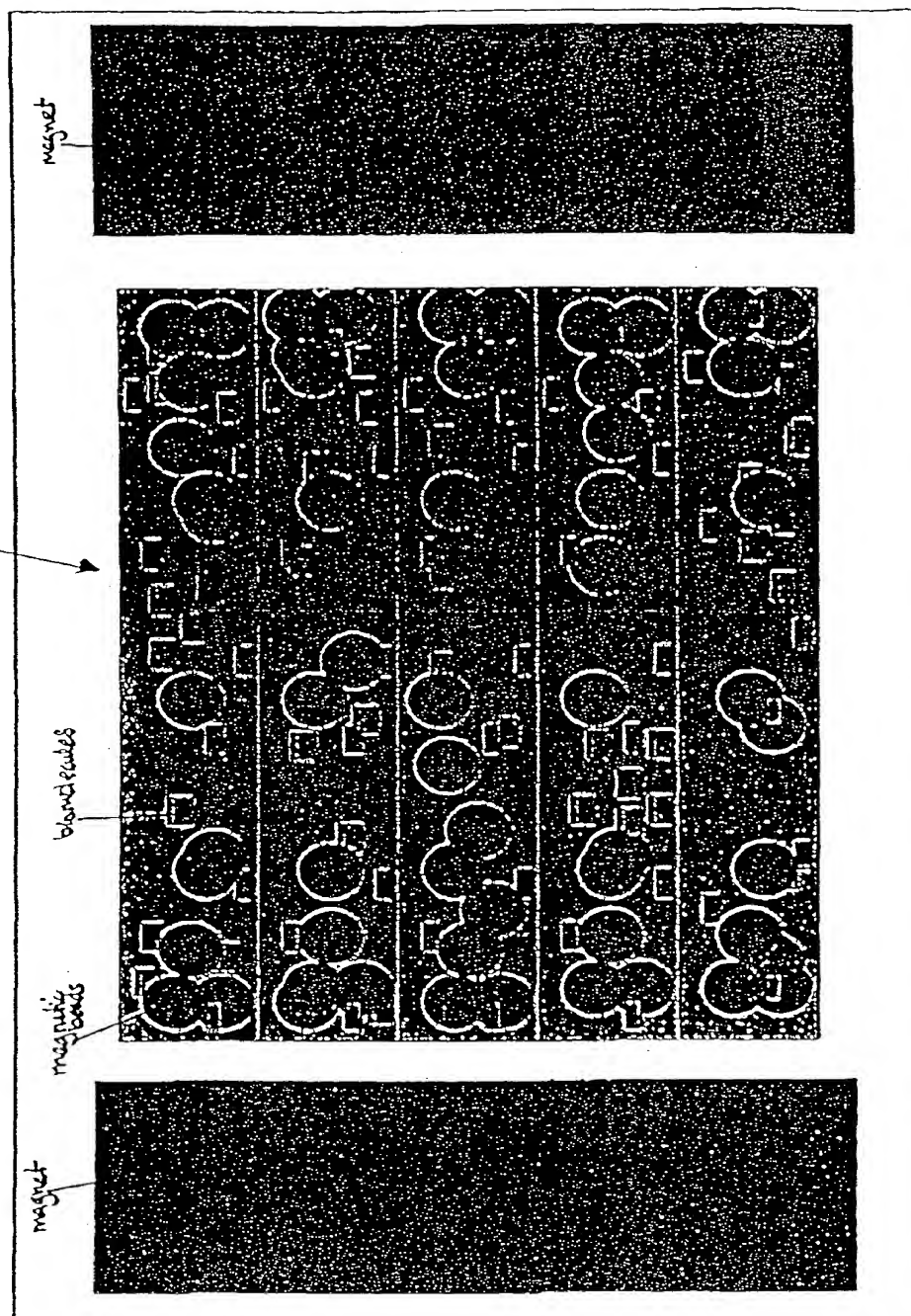


Figure
14A

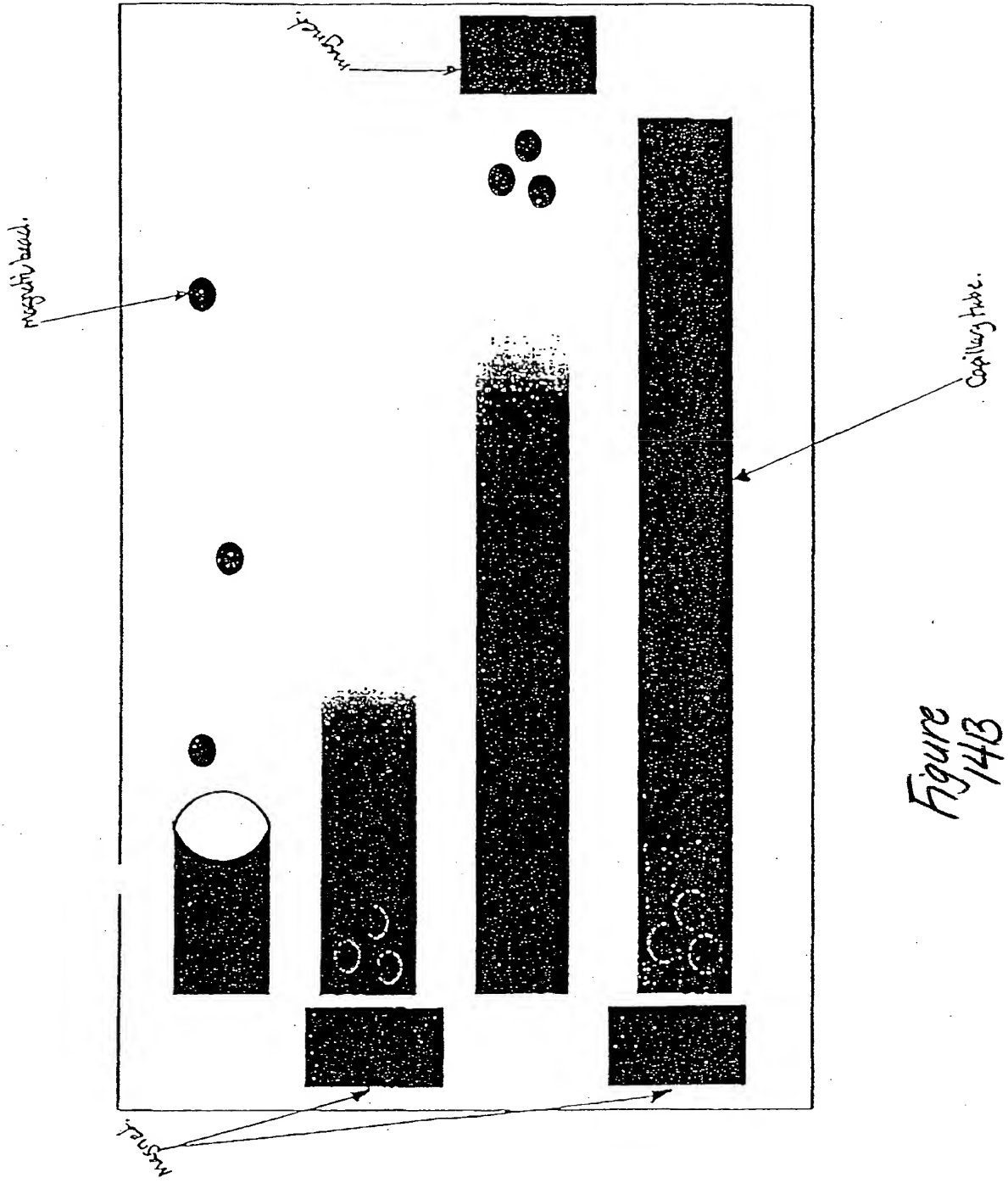


Figure 14B

09975036-101001

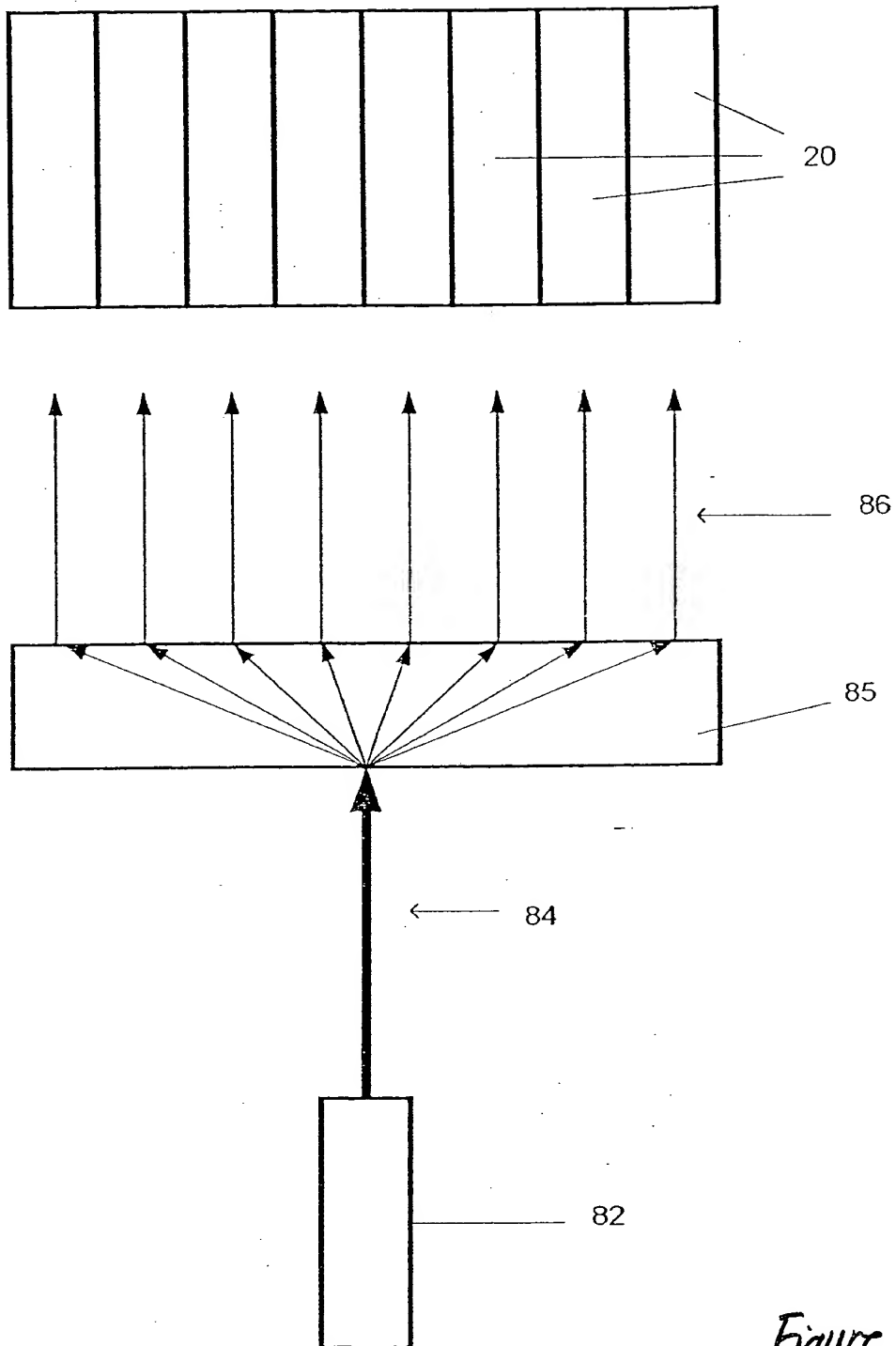


Figure
15

Automated H/I Detection & Recovery System

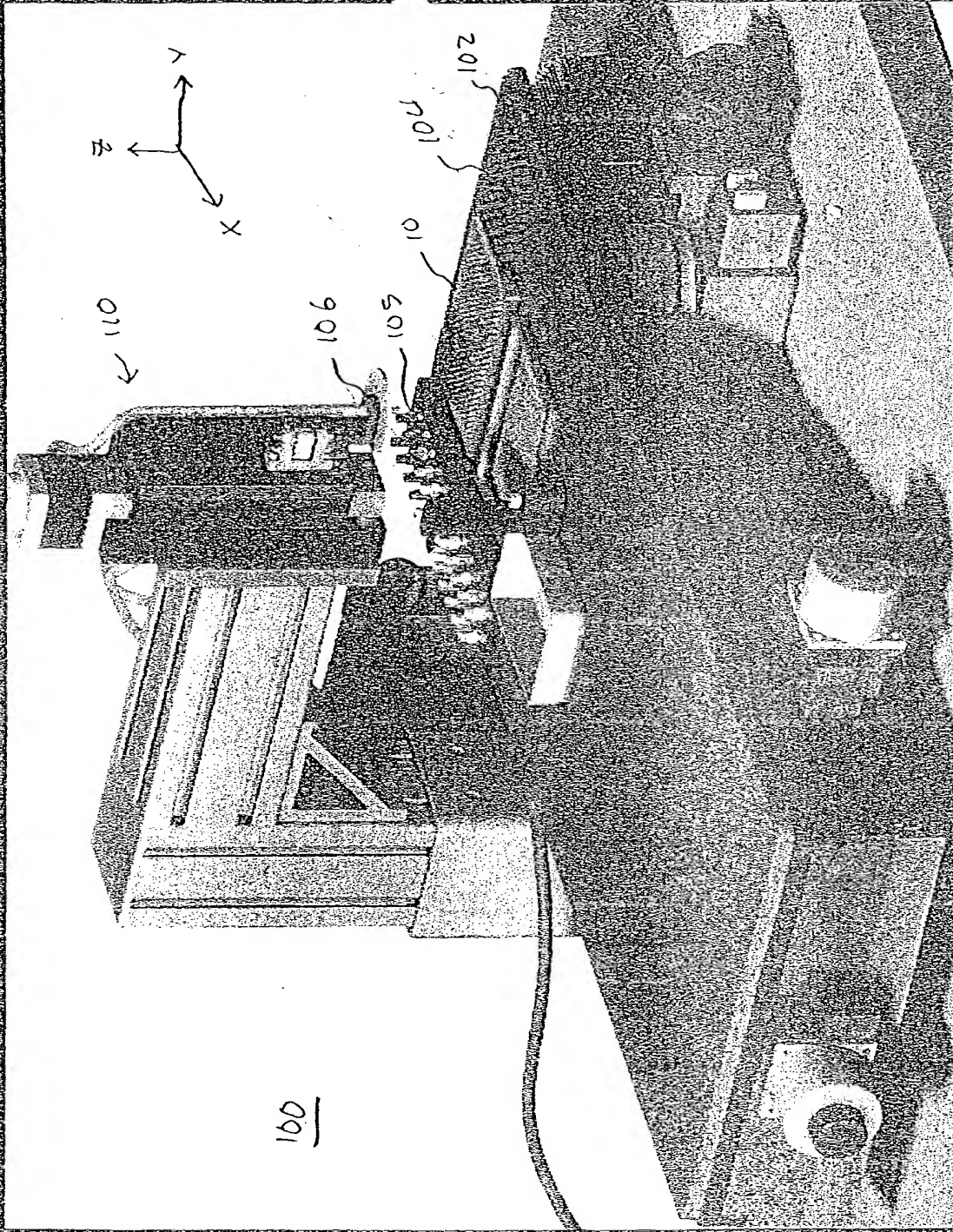
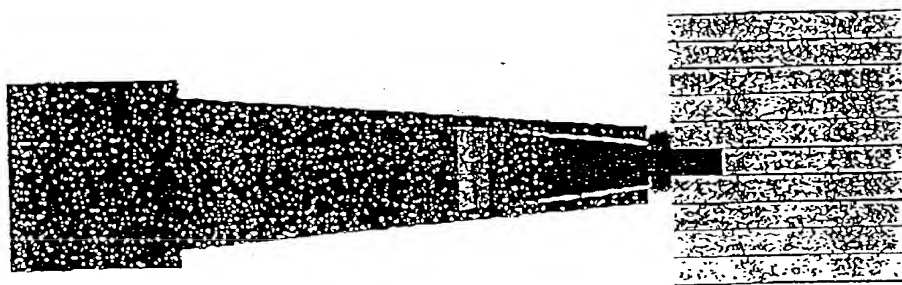


Figure 10

09975036-101001



B



A

Figure
17

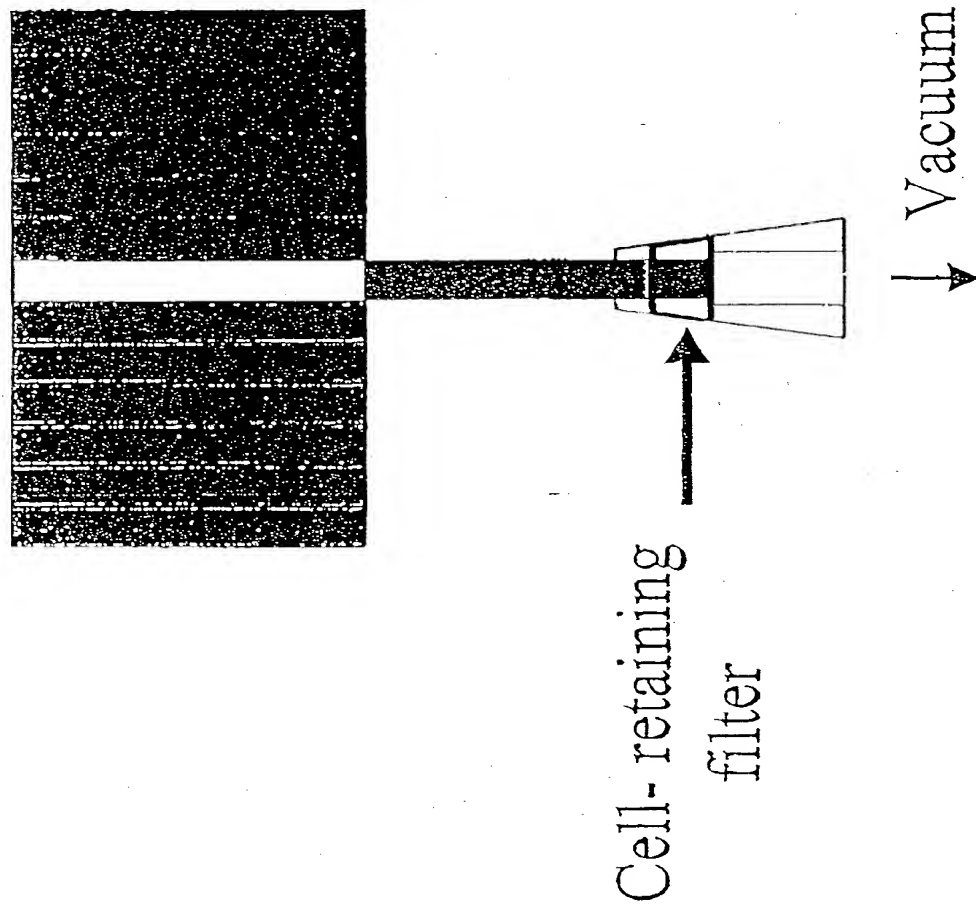


Figure
17C

099715036 101001

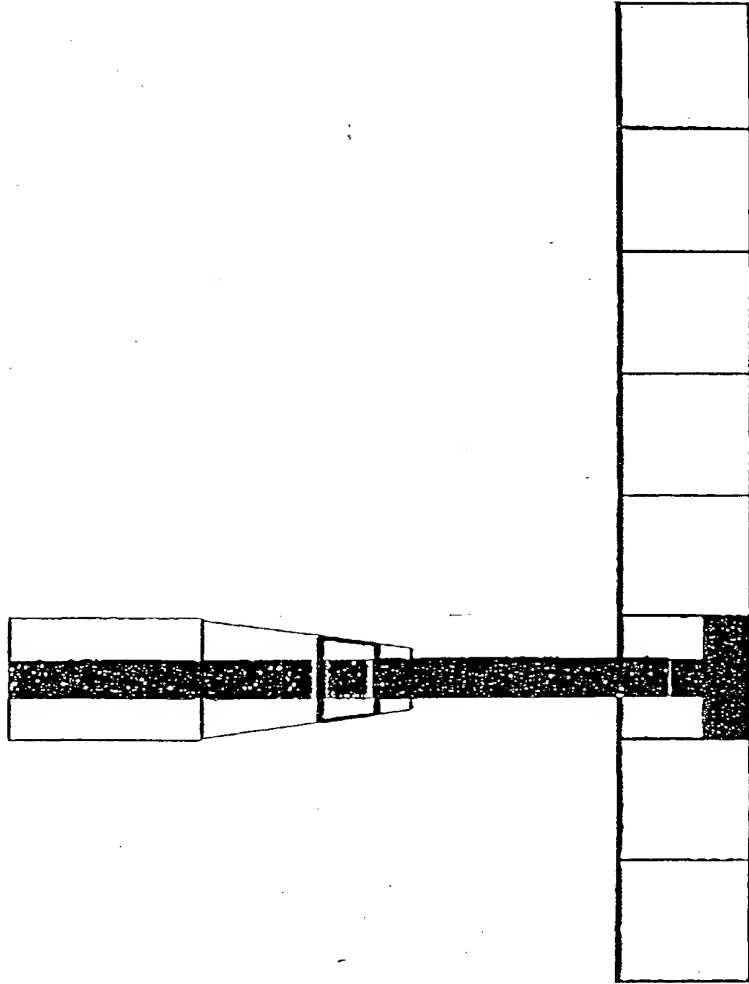
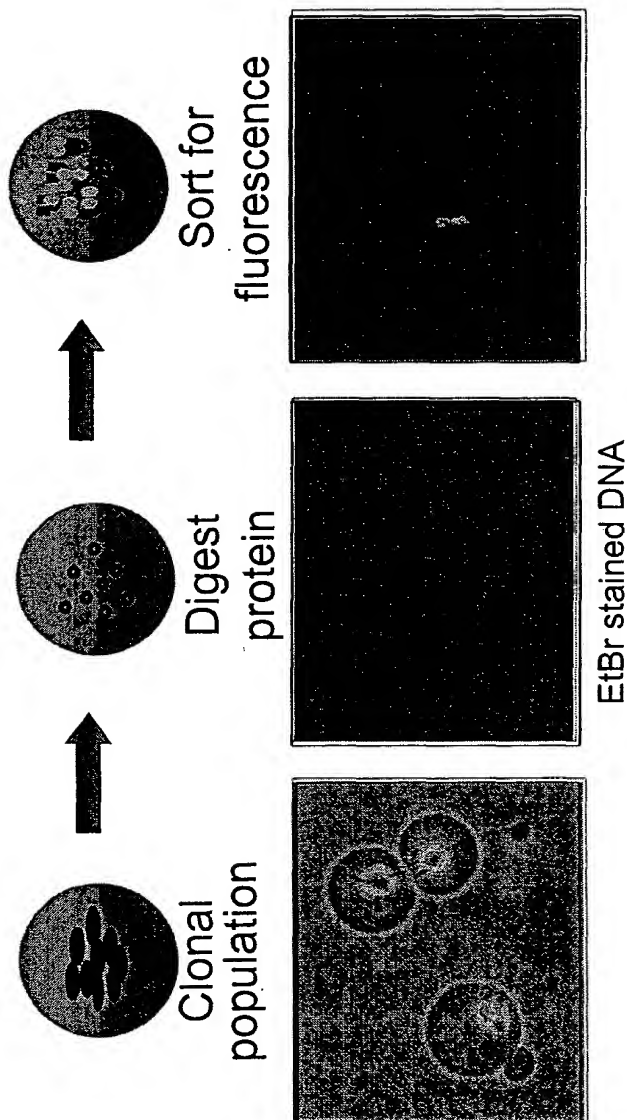


Figure
17D

FACS-Biopanning



STGCTSGIDSVGYAVQLIREGSADVLAGAADTVSPFIVACFDAIKATTPENDPEHA
VSTGCTSGIDAVGYAFHTIEESRADVCIAGASDPSISPITMACFDAIKATSPRNDPEHA
VSTGCTSGIDAVGYAYAHALAEGRADVCLAGASDSEISETIMACFDAIKATSPESNDPEHA
VSTGCTSGIDSGIYACELIREGTVDAWVAGGVDAPIABITVACTDAIRATSDHNTPEHA
IATACTGVHNTGHARTIAYGDADVAGCAEKASTPLVAGGFGAARALSTVNTPECAA

SNPFDGTENGTVLAEGCAAMFVLEIEYEAARKRGAKIYAEVGGYATPCNAYHMTNKKLQRE
SNFTDAHDCSTFKCEGAAVVLVELEHAPARGADVYCEIGYATPCNAYHMTNKKLQRE
SNFTDAHDCSTFKCEGAAVVLVELEHAPARGADVYCEIGYATPCNAYHMTNKKLQRE
SNFTDAHDCSTFKCEGAAVVLVELEHAPARGADVYCEIGYATPCNAYHMTNKKLQRE
SNFTDAHDCSTFKCEGAAVVLVELEHAPARGADVYCEIGYATPCNAYHMTNKKLQRE
SNFTDAHDCSTFKCEGAAVVLVELEHAPARGADVYCEIGYATPCNAYHMTNKKLQRE
SNFTDAHDCSTFKCEGAAVVLVELEHAPARGADVYCEIGYATPCNAYHMTNKKLQRE
SNFTDAHDCSTFKCEGAAVVLVELEHAPARGADVYCEIGYATPCNAYHMTNKKLQRE

MAEAIKRALDEA
MAEAIKRALDEA
MAEAIKRALDEA
MAEAIKRALDEA
MAEAIKRALDEA

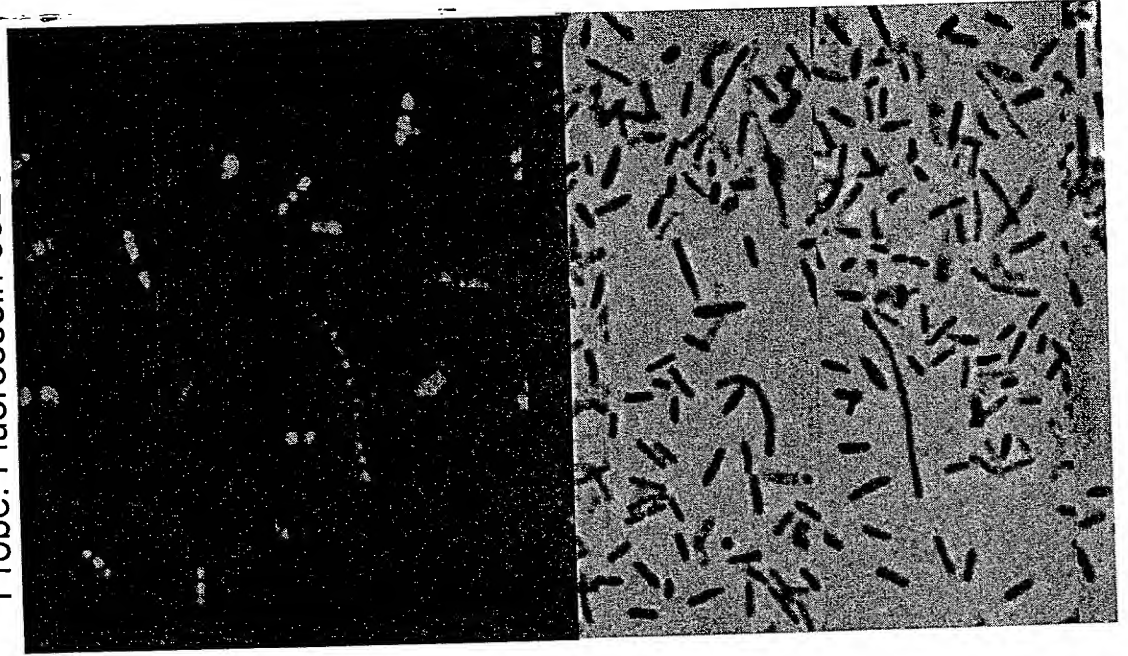
Alignment of Environmental
PKS Sequence

FIG. 19

TOOTOT"9E0S2660

Whole Cell Hybridization

Library 557 + 95ES11 clone
Probe: Fluorescein-95ES11



Fluorescein
Excitation

White
light

FIG. 20

Environmental DNA
(Digest and Size Select)

Ligate into vector

Introduce into
bacterial host

Eukaryotic cell

Co-encapsulate in microdrop

Recover DNA

Sort on
flow cytometer

Positives

Negatives

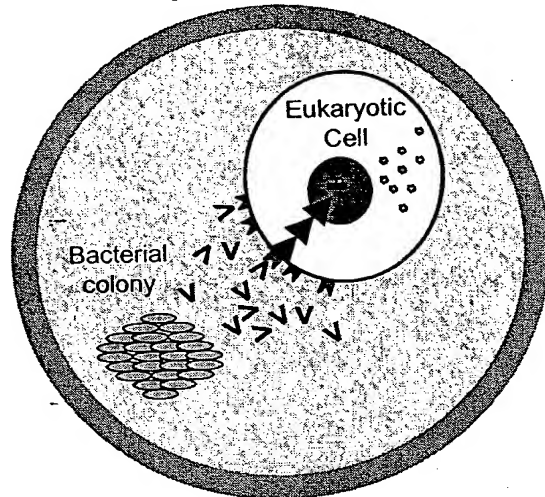


FIG. 21

09975036-101001

Whole Cell Hybridization Protocol

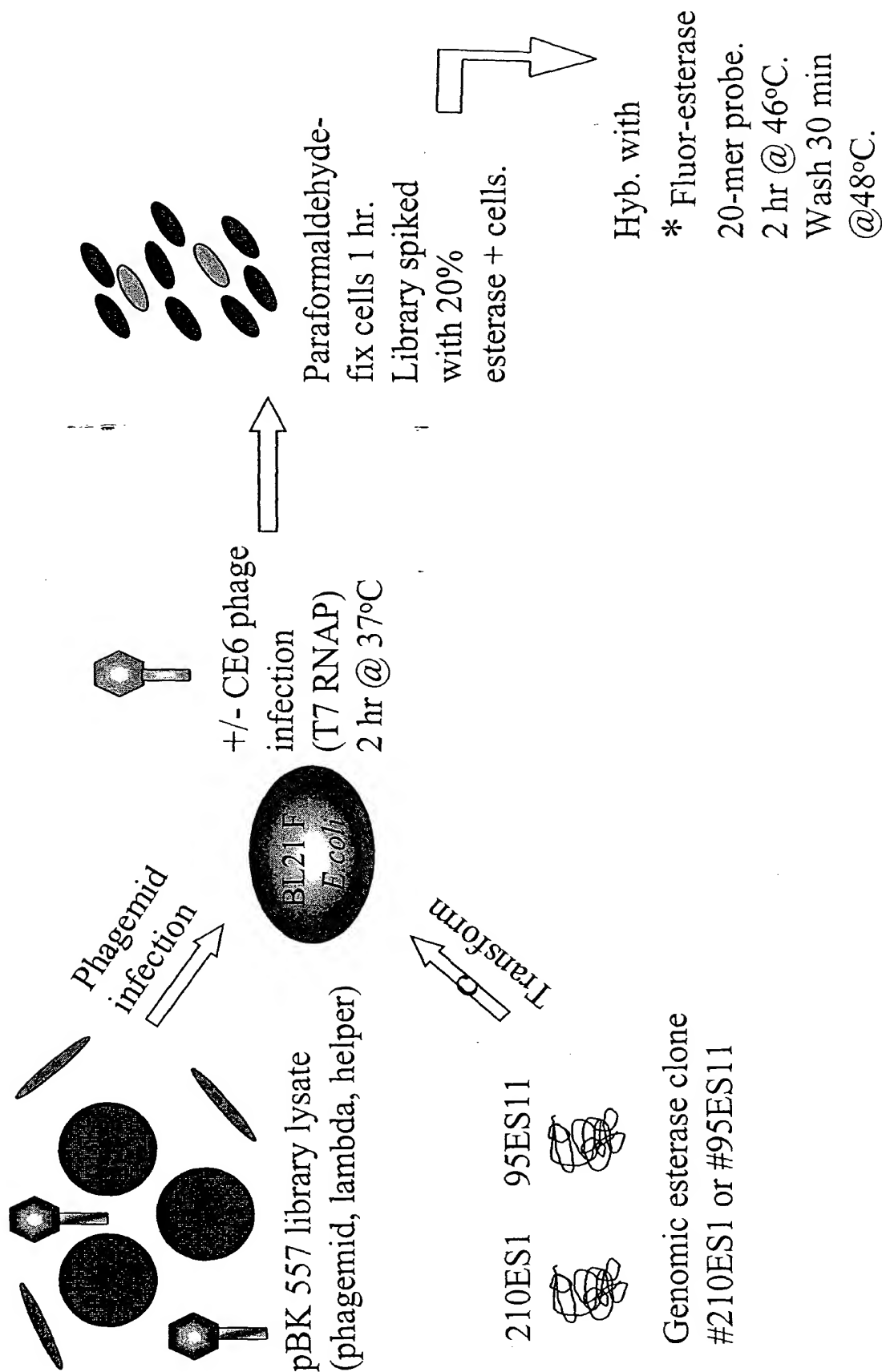


FIG. 22

T7 RNA Polymerase Expression System

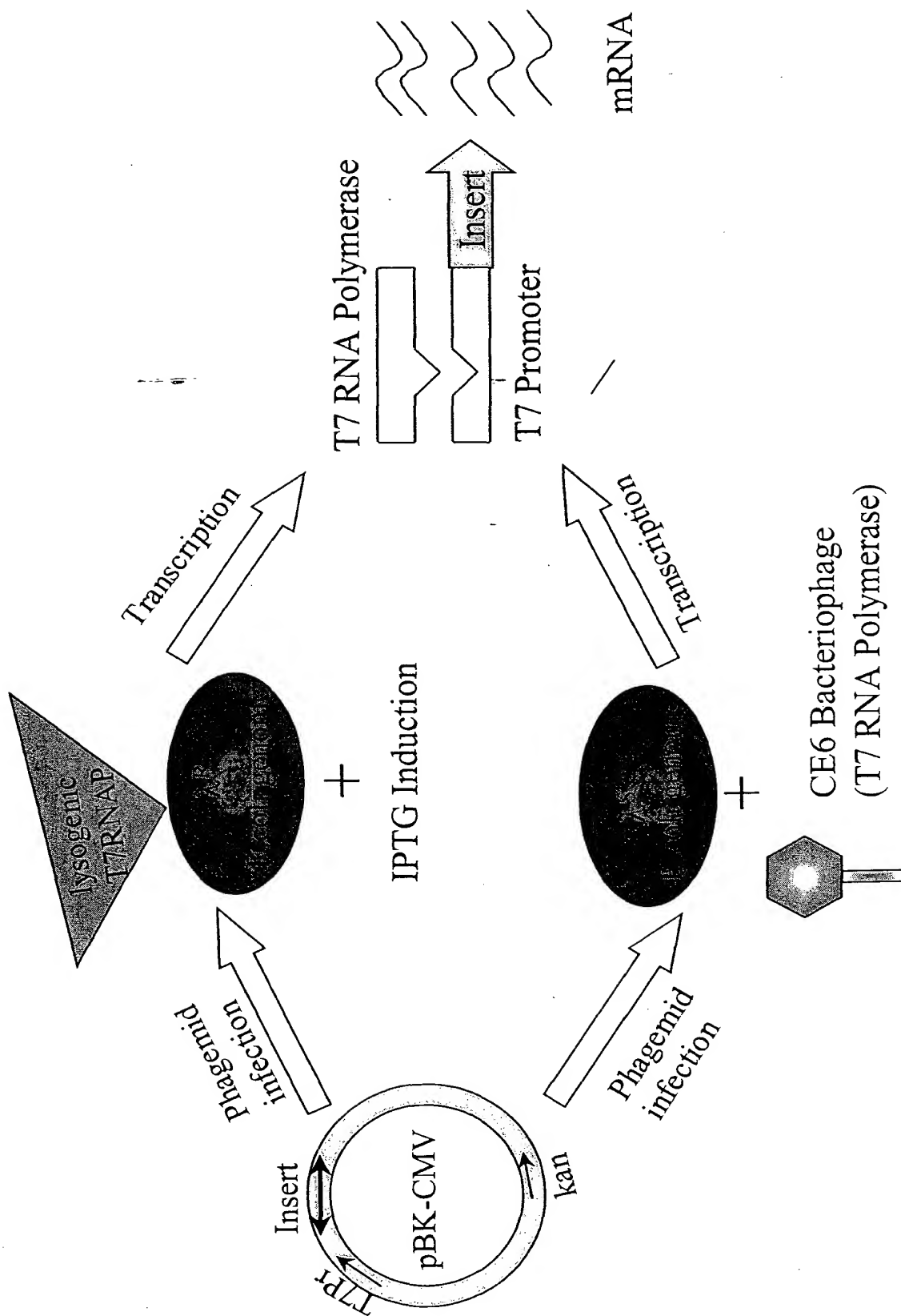


FIG. 23